BAAQMD Title V Permit 6 Month Monitoring Report From 7/1/2016 to 12/31/2016

	1770	From //1/2016 to 12/31/2016				
	A0010 Chevron Richmond Refinery	негу				
	Facility Address:		Maiing Address			
	841 Chevron Way		PO Box 1272			
	City: Richmond State: CA State: CA Zip Code: 94801-		City: Richmond. State: CA. Zip Code: 94802-0272.			
	Contact: Cameron Toy	y Title: Compliance Technician	<u>e Technician</u> Phone: (510) 242-4449			
Inoperable monitors as defined by BAAQMD Regulations 1-522 and 1-523 for the reporting period are summarized below:	and 1-523 for the reporting period are summar	rized below:				
Started Stopped .	Source (S#) Abatement Emission Device (A#) Point (P#)	CEM GLM Gas Parametri	Fuel Opacity Wind Find GLM Gas Parametri NOx 802 CO H2S TRS NH3 Q2 CO2 H2O LTA Lead Steam Flow Wind Dir. Speed	Wind Gauge	p. VOC.	Gauge Press.
7/1/2016 4:11 PM 7/5/2016 3:01 PM 🗹	\$6015					
Event Description: The D&R Flare video camera became obstructed on 7/1/16 at 1611 hours. The camera lens was cleaned and put back in service on 7/5/16 at 1501 hours. Video monitor is part of the flare monitoring sys	7/1/16 at 1611 hours. The camera lens was cleaned ar	nd put back in service on 7/5/1	s at 1501 hours. Video monitor is part of the flare monitoring system.			
7/13/2016 9:30 AM 7/20/2016 10:15 AM G	S6015					
Event Description: Update: Resumption of Monitoring. The D&R Flare Sampling Station has been repaired and returned to service on 7/20/16 at 1015 hours	ampling Station has been repaired and returned to se	rvice on 7/20/16 at 1015 hours				
The D&R Flare Sampling Station became inoperative on 7/13/16 at approximately 9:30 hours. The Sampling Station is part of S-6015 Flare Monitoring System	on 7/13/16 at approximately 9:30 hours. The Sampli	ing Station is part of S-6015 F	are Monitoring System.			
8/22/2016 9:00 AM 10:27/2016 10:15 AM S651 Discovered On: 8/22/2016 Event Description: BAAQMD #07A08. Event Description: Repairs complete on the Alky CWT flowmeter. Resumption of monitoring began on 10/27/2016 at 10:15 AM.	56051 umption of monitoring began on 10/27/2016 at 10:15	AM.	· · · · · · · · · · · · · · · · · · ·			
Alky cooling water tower flow meter (12FI1400 E-12	.60 Cooling Water to Alky Plant) went inoperative or	n 8/22/2016 at 0900 hours. In	Alky cooling water tower flow meter (12F1140) E-1260 Cooling Water to Alky Plant) went inoperative on 8/22/2016 at 0900 hours. Incident is ongoing. Notification for resumption of monitoring will be submitted once repairs are complete.	are complete.		
8/30/2016 9:09 AM 8/31/2016 10:04 AM 🕢	\$6039					
Event Description: The RLOP flare video recording equipment, as part of	f the flare monitoring system, became inoperative on	8/30/16 at approximately 090	The RLOP flare video recording equipment, as part of the flare monitoring system, became inoperative on 8/30/16 at approximately 1909 hours. The video recording equipment was repaired and put back into service on 8/31/16 at approximately 1004 hours.	t approximately 1	1004 hou	ITS.
9/1/2016 10:03 AM 9/2/2016 10:21 AM 🕢 5	S6016					
Event Description: The FCC Flare vent gas pressure meter became inoperative on 9/1/16 at approximately 1003 hours. The meter was repaired and put back in service on 9/2/16 at approximately 1021 hours.	rative on 9/1/16 at approximately 1003 hours. The m	eter was repaired and put back	in service on 9/2/16 at approximately 1021 hours.			

16/2016 4:02 PM	Source (S#) Device (A#) Point (P#) 84285		CEM GLM Gas Parametri NOx SO2 CO H2S TRS NH3 Q2 CO2.H2Q
8:30 AM 9/16/2016 4:02 PM On: 9/11/2016 phion: UPDATE RCA # 07/A24.: Resumption of monitoring Temperature indicator, 50TI614 is not available to m	emperature indicator, 50TI614 was 9/1 the FCC ESP inlet temperature due to	☐ ☐ ☐ ☑ 6 at approximately 1600 hours. maintenance being performed on the	
9/12/2016 4:52 AM 9/13/2016 8:06 AM 🕢 S4070	THE PROPERTY OF THE PROPERTY O	80	
Discovered On: 9/13/2016 Event Description: F-1100A O2 Analyzer became inoperative on 9/12/2016 at 0452 hours.	0452 hours. The O2 analyzer was rep	The O2 analyzer was repaired, calibrated, and put back in service on 9/13/16 at 0806 hours.	ice on 9/13/16 at 0806 hours.
10/16/2016 1:30 PM 10/17/2016 3:00 PM G v-701 Discovered On: 10/17/2016 Event Description: The HJS analyzer for the Fuel Gas Drum. V-701 became incoverative on 10/16/16 at 13:30 hours. The analyzer was repaired and nut back into service on 10/17/16 at 15:00 hours.	noperative on 10/16/16 at 13:30 hours.	The analyzer was repaired and put he	sek into service on 10/17/16 at 15:00 hours.
모			
On: 10/17/2016 Fuel Gas Drum, V-701, be	inoperative on 10/16/16 at 13:30 hours	. The analyzer was repaired and put b	ack into service on 10/17/16 at 15:00 hours.
Event Description: The Specific Gravity analyzer for the Fuel Gas Drum, V-701, became inoperative on 10/16/16 at 13:30 hours. The analyzer was repaired and put back into service on 10/17/16 at 15:00 hours.)1, became inoperative on 10/16/16 at 1	3:30 hours. The analyzer was repaire	
10/22/2016 11:18 AM 10/23/2016 3:23 PM S4/71 Discovered On: 10/24/2016			d and put back into service on 10/17/16 at 1
Event Description: F-355 361E: The Nox, CO, and O2 analyzers became inoperative on 10/22/16 at 11:18 hours. The analyzers were repaired and returned to service on 10/23/16 at 15:23 hours.	crative on 10/22/16 at 11:18 hours. The	©	d and put back into service on 10/17/16 at 15:
11/9/2016 4:00 AM 11/12/2016 8:49 AM		analyzers were repaired and returned	d and put back into service on 10/17/16 at 1
11/11/2016 2:57 AM 11/12/2016 8:13 AM 🕝 S4171	0400 hours. The analyzer was repaired	122/16 at 11:18 hours. The analyzers were repaired and returned to service on 10 constant and returned to service on 10 constant analyzer was repaired and put back into service on 11/12/16 at 0849 hours.	d and put back into service on 10/17/16 at 15: G
Event Description: The F-355 361W NOx analyzer became inoperative on 11/11/16 at 0257 hours. The analyzer was repaired and put back into service on 11/12/16 at 0813 hours.	0400 hours. The analyzer was repaired	analyzers were repaired and returned O	d and put back into service on 10/17/16 at 15: G G G G G G G
11/25/2016 9-00 AM 1/23/2017 2:10 PM 🕢 56931 🖂 🖂 🖂 🖂 🖂 🖂 🖂 🖂 🖂 🖂 🖂 🖂 🖂	0400 hours. The analyzer was repaired	analyzers were repaired and returned and put back into service on 11/12/1 and put back into service on 12/12/1 repaired and put back into service on	d and put back into service on 10/17/16 at 1 G
The Alky Cooling Water Tower flow meter (12F11400) began operating intermittently on 11/25/16 at approximately 0900 hours. Notification of resumption of monitoring to follow.	0400 hours. The analyzer was repaired and 0257 hours. The analyzer was valer Tower flowmeter was repaired an	analyzers were repaired and returned and put back into service on 11/12/1 and put back into service on 11/12/1 and put back into service on 11/12/1 and put back into service on 11/12/17 at 1	d and put back into service on 10/17/16 at 15:
12/12/2016 12:20 PM 12/14/2016 1:42 PM	0400 hours. The analyzer was repaired to the analyzer was repaired to the analyzer was repaired and valer Tower flowmeter was repaired an gan operating intermittently on 11/25/1	analyzers were repaired and returned and put back into service on 11/12/1 and put back into service on 11/12/1 Trepaired and put back into service on 11/2/17 at 1 d returned to service on 01/23/17 at 1	d and put back into service on 10/17/16 at 1
Event Description: The BTO analyzer for the Fuel Gas Drum V-8 /0 became t	0400 hours. The analyzer was repaired to the analyzer was repaired was repaired an operating intermittently on 11/25/1	analyzers were repaired and returned and put back into service on 11/12/1 and put back into service on 11/12/1 and put back into service on 11/12/1 are purchased to service on 01/23/17 at 1 at approximately 0900 hours. Notifi	d and put back into service on 10/17/16 at 15:
12/12/2016 12:20 PM 12/14/2016 1:42 PM Discovered On: 12/13/2016 V-870	0400 hours. The analyzer was repaired to the state of the same of	analyzers were repaired and returned and put back into service on 11/12/1 and put back into service on 11/12/1	Part Part
	0400 hours. The analyzer was repaired to the state of the sanalyzer was repaired an understanding intermittently on 11/25/16 at 12:20 hours.	analyzers were repaired and returned and put back into service on 11/12/1 and put back into service on 11/12/1 repaired and put back into service on 01/23/17 at 1 d returned to service on 01/23/17 at 1 f approximately 0900 hours. Notifi	d and put back into service on 10/17/16 at 15.
Event Description: The Specific Gravity analyzer for the Fuel Gas Drum V-870 became inoperative on 12/12/16 at 12:20 hours. The analyzer was repaired and put back into service on 12/14/16 at 13:42 hours.	0400 hours. The analyzer was repaired an 10257 hours. The analyzer was repaired an operating informatiently on 11/25/16 at 12:20 hours.	analyzers were repaired and returned and put back into service on 11/12/1 and put back into service on 11/12/1	d and put back into service on 10/17/16 at 1

Signature of Responsible Official Print Name Wednesday, January 25, 2017	Certification Statement I certify under penalty of law that based on the information and belief formed after reasonable inquiry the statements and information in this document and in all attachments and for faterials are true, accurate, and complete. Kory Judd	Event Description: UPDATE: Resumption of monitoring. The F-1100B Nox analyzer was repaired and returned to service on 12/31/16 at 0804 hours. Reference RCA# 07B57. The F-1100B Nox analyzer became inoperative on 12/29/2016 at 0816 hours. Repairs ongoing.	12/29/2016 8:16 AM 12/31/2016 8:04 AM Discovered On: 12/30/2016	The F-1100A Nox analyzer became inoperative on 12/28/16 at 1000 hours. Repairs ongoing	1228/2016 10:00 AM 13/2017 11:47 AM	Event Description: The F-1100A Nox analyzer became inoperative on 12/19/16 at 1318 hours. The Nox analyzer was repaired and returned to service on 12/20/16 at 1532 hours.	12/19/2016 1:18 PM 12/20/2016 3:32 PM Discovered On: 12/20/2016	Revised: F-247 fuel gas flow meter was recently disco	Event Description: The F-247 fuel gas flow meter was inoperative from 12/12/16 at 1350 hours to 12/20/16 at 09:45 hours	1/2017 1:34 PM	The F-210 fuel gas flow meter was inoperative from 12/12/16 at 1345 hours to 12/20/16 at 0945 hours	Discovered On: 12/20/2016 Event Description: Revised: F-210 fuel gas flow meter was recently disco	12/12/2016 1:45 PM 1/9/2017 2:46 PM	Event Description: The F-447 fuel gas flow meter was inoperative from 12/11/16 at 1310 hours to 12/16/16 at 0014 hours.	/16/2016 12:14 AM ☑	Event Description: The F-410 fuel gas flow meter was inoperative from 12/11/16 at 1305 hours to 12/16/16 at 0017 hours	/16/2016 12:17 AM	Started Stopped
Title	ned after n all General Manager Richmond Refinery	Nox analyzer was repaired and returned to service on /29/2016 at 0816 hours. Repairs ongoing.	\$4071	/28/16 at 1000 hours. Repairs ongoing.	S4070 NOx analyzer was repaired and put back into service.	/19/16 at 1318 hours. The Nox analyzer was repaired	S4070	wered to have a different period of inoperation than p	2/12/16 at 1350 hours to 12/20/16 at 09:45 hours.	\$4059	.2/12/16 at 1345 hours to 12/20/16 at 0945 hours.	wered to have a different period of inoperation than p	\$4060	2/11/16 at 1310 hours to 12/16/16 at 0014 hours.	S4062	2/11/16 at 1305 hours to 12/16/16 at 0017 hours.	S4061	Source (St) Abatement Emission Device (AH) Point (PH)
Date Page 1 of 3	11000 25 Jan 2017	n 12/31/16 at 0804 hours. Reference RCA# 07B57.	s		60 0	ed and returned to service on 12/20/16 at 1532 hours.		Revised: F.247 fuel gas flow meter was recently discovered to have a different period of inoperation than previously reported. The clear time has been changed to January 11, 2017 at 13:34 hours.				2/20/2016 Revised: F-210 fiel gas flow meter was recently discovered to have a different period of inoperation than previously reported. The clear time has been changed to January 9, 2017 at 1446 hours.						Euel OpseitW CEM GLM Gas Parametri NOx SO2 CO H2S TRS NH3 O2 CO2 H2O LTA Lead Steam Flow Wind Dir. Sneed pH Temp VOC. Press.

